OHIO PUBLIC WORKS COMMISSION

65 East State Street, Suite 312 Columbus, Ohio 43215 (614) 466-0880

APPLICATION FOR FINANCIAL ASSISTANCE

Revised 6/90

CB516

IMPORTANT: Applicant should consult the "Instructions for Completion of Project Application for assistance in the proper completion of this form.

| APPLICANI NAME | Village of North Bend | |
|---|--|-------------|
| STREET | 21 Taylor Avenue | |
| CITY/ZIP | North Bend 45052 | |
| PROJECT NAME PROJECT TYPE TOTAL COST | Shady Lane Landslide Reconstruction \$ 150,000.00 | |
| DISTRICT NUMBER COUNTY | Hamilton w | OF THE |
| PROJECT LOCATION | ZIP CODE 45052 | 河田 |
| | | |
| DISTR | CICT FUNDING RECOMMENDATION pleted by the District Committee ONLY | |
| DISTR | pleted by the District Committee ONLY | |
| DISTR To be comp RECOMMENDED AMOUNT | pleted by the District Committee ONLY | MLE. |
| DISTR To be comp RECOMMENDED AMOUNT | pleted by the District Committee ONLY OF FUNDING: \$\frac{135,000.00}{200} OING SOURCE (Check Only One): | und |
| DISTR To be comp RECOMMENDED AMOUNT FUND State Issue 2 District Allocation Grant Loan | pleted by the District Committee ONLY OF FUNDING: \$\frac{135,000.00}{25,000.00}\$ OING SOURCE (Check Only One): On \$\frac{X}{2}\$ State Issue 2 Small Government Formula State Issue 2 Emergency Funds Local Transportation Improvement FOR OPWC USE ONLY | und Fund |

1.0 APPLICANT INFORMATION

CITY/ZIP PHONE

FAX

| 1.1 | CHIEF EXECUTIVE OFFICER TITLE STREET CITY/ZIP PHONE FAX | Larry Drew Mayor 21 Taylor Avenue North Bend 45052 (513) 941 - 0610 () - |
|-------------|---|---|
| 1.2 | CHIEF FINANCIAL OFFICER TITLE STREET | Gail Montague Clerk 21 Taylor Avenue |
| | CITY/ZIP PHONE FAX | North Bend 45052 (513) 941 - 0610 |
| 1 .3 | PROJECT MGR TITLE STREET | Bill McCormick/Joseph M. Allen Co. Village Engineer 1947 Auburn Avenue |
| | CITY/ZIP PHONE FAX | Cincinnati 45219 (513) 721 - 5500 (513) 721 - 0607 |
| 1.4 | PROJECT CONTACT TITLE STREET | Bill McCormick Village Engineer 1947 Auburn Avenue |
| | CITY/ZIP PHONE FAX | Cincinnati 45219 (513) 721 - 5500 (513) 721 - 0607 |
| 1.5 | DISTRICT LIAISON TITLE STREET | William Brayshaw, P.E., P.S. Chief Deputy Engineer Hamilton County 223 W Galbraith |

Hamilton County 223 W. Galbraith

513

513

Cincinnati 45215

761

7400

9127

2.0 PROJECT INFORMATION

<u>IMPORTANT:</u> If project is multi-jurisdictional in nature, information must be <u>consolidated</u> for completion of this section.

2.1 PROJECT NAME:

Shady Lane Landslide

2.2 BRIEF PROJECT DESCRIPTION - (Sections A through D):
A. SPECIFIC LOCATION:

see attached map

B. PROJECT COMPONENTS:

Remove existing pavement to failing base. Implement hillside curtain drain and slope stabilization as per ATEC report. Reconstruct with asphalt concrete.

C. PHYSICAL DIMENSIONS/CHARACTERISTICS:

300'L - slide area to be reconstructed

D. DESIGN SERVICE CAPACITY:

IMPORTANT: Detail shall be included regarding current service capacity vs proposed servic level. If road or bridge project, include ADT. If water or wastewater projec include current residential rates based on monthly usage of 7,756 gallons per household.

 $5,000 \text{ ADT } \times 1.2 = 6,000 \text{ ADT}$

2.3 REQUIRED SUPPORTING DOCUMENTATION

(Photographs/Additional Description; Capital Improvements Report; Priority Lis 5-year Plan; 2-year Maintenance of Effort report, etc.) Also discuss the number of temporary and/or fulltime Jobs which are likely to be created as a result of this project. Attach Pages. Refer to accompanying instructions for furthe detail.

3.0 PROJECT FINANCIAL INFORMATION

3.1 PROJECT ESTIMATED COSTS (Round to Nearest Dollar):

| a) | Project Engineering Costs: 1. Preliminary Engineering 2. Final Design 3. Construction Supervision | \$ N/A \$ N/A |
|----------------|--|--------------------------------|
| p) . | Acquisition Expenses 1. Land | \$ <u>N/A</u> \$ <u>N/A</u> |
| c) | 2. Right-of-Way Construction Costs | \$ N/A \$ 150,000 |
| d) e) f) | Equipment Costs Other Direct Expenses Contingencies | \$ \$ |
| g) | TOTAL ESTIMATED COSTS | \$ 150,000 |

3.2 PROJECT FINANCIAL RESOURCES (Round to Nearest Dollar and Percent)

| | • | Dollars | % |
|----|-----------------------------|-------------------|-----|
| a) | Local In-Kind Contributions | \$ | |
| b) | Local Public Revenues | S | |
| c) | Local Private Revenues | \$ | |
| d) | Other Public Revenues | | |
| _ | I. ODOT | \$ | |
| | 2. FMHA | S | |
| | 3. OEPA | \$ | |
| | 4. OWDA | \$ | |
| | 5. CDBG | \$ | |
| | 6. OtherMRF | \$ 15,000 | 10 |
| e) | OPWC Funds | | |
| | 1. Grant | \$ <u>135,000</u> | 90 |
| | 2. Loan | \$ | |
| | 3. Loan Assistance | \$ | |
| f) | TOTAL FINANCIAL RESOURCES | § 150,000 | 100 |

If the required local match is to be 100% In-Kind Contributions, list source of funds to be used for retainage purposes:

3.3 AVAILABILITY OF LOCAL FUNDS

indicate the status of <u>all</u> local share funding sources listed in section 3.2(a) through 3.4(c). In addition, if funds are coming from sources listed in section 3.2(d), the following information <u>must be attached to this project application</u>:

- 1) The date funds are available;
- 2) Verification of funds in the form of an agency approval letter or agency project number. Please include the name and number of the agency contact person.

3.4 PREPAID ITEMS

ENGR. DESIGN BID PROCESS CONSTRUCTION

4.1 4.2 4.3

| Definitions: | | | | | |
|--|---------------------------------------|--|--|-------------------------------|-----------------|
| Cost - Cost Item - Prepaid - | design, acquisiti Cost items (non- | n costs, inclu on expenses (-construction (| n. Iding preliminary Iland or right-of-wo costs directly relat executed Projec | ay). ed to the pro | oject) |
| Resource Category - Verification - | Source of funds Invoice(s) and | copies of wo | 3.2). arrant(s) used to ager's Certificatio | for prepaid n (see section | costs n 1.4) |
| IMPORTANT: Verification | of all prepaid It | ems shall be | attached to this p | oroject applic | ation |
| COST ITEM 1) | | RESOURCE C | | \$\$ | - |
| • | | | | \$ | |
| TOTAL OF I | PREPAID ITEMS | \$NEW/EXPAN | ISION | | ali e |
| This section need only | be completed if | the Project is | to be funded by | SI2 funds: | |
| TOTAL PORTION OF PRO State Issue 2 Fun (Not to Exc | ds for Repair/Rep | LACEMENT placement | \$ 150,000.00 \$ 135,000.00 | 100 90 | _% - |
| TOTAL PORTION OF PRO State Issue 2 Fun (Not to Exc | ds for New/Expan | | \$\$ | | _% - |
| 4.0 PROJECT SO | EST | IMATED .RT DATE | ESTIMATED COMPLETE DAT | Έ | |

5.0 APPLICANT CERTIFICATION

The Applicant Certifies That:

As the official representative of the Applicant, the undersigned certifies that: (1) he/she is legally empowered to represent the applicant in both requesting and accepting financial assistance as provided under Chapter 164 of the Ohio Revised Code and 164-1 of the Ohio Administrative Code; (2) that to the best of his/her knowledge and belief, all representations that are a part of this application are true and correct; (3) that all official documents and commitments of the applicant that are a part of this application have been duly authorized by the governing body of the Applicant; (4) and, should the requested financial assistance be provided, that in the execution of this project, the Applicant will comply with all assurances required by Ohio law, including those involving minority business utilization, Buy Ohio, and prevailing wages.

IMPORTANT: Applicant certifies that physical construction on the project as defined in this application has not begun, and will not begin, until a Project Agreement on this project has been issued by the Ohio Public Works Commission. Action to the contrary is evidence that OPWC funds are not necessary to complete this project.

IMPORTANT: In the event of a project cost underrun, applicant understands that the identified local match share (sections 3.2(a) through 3.2(c) will be paid in full toward completion of this project. Unneeded OPWC funds will be returned to the funding source from which the project was financed.

| Lawrence P. | Drew, Mayor | |
|--------------------|---|---|
| Certifying Re | presentative (Type Name and Title) | _ |
| Luce | en flee 2-26-92 | |
| Signature/Da | te Signed | |
| Apolicant shall ch | eck each of the statements below, confirming that all required information is | l |

Applicant shall check each of the statements below, confirming that all required information is included in this application:

| <u> </u> | | A five-year Capital improvements Report as required in 164-1-31 of the Onio Administrative Code |
|----------|------------|---|
| | | and a <u>two-year Maintenance of Local Effort Report</u> as required in 164-1-12 of the Ohio Administrative Code. |
| <u> </u> | | A registered professional engineer's estimate of useful life as required in 164-1-13 of the Ohio Administrative Code. Estimate shall contain engineer's original seal and signature. |
| Y | | |
| | | A registered professional engineer's estimate of cost as required in 164-1-14 and 164-1-16 of the Ohlo Administrative Code. Estimate shall contain engineer's <u>original seal and signature.</u> |
| <u> </u> | | A certified copy of the legislation by the governing body of the applicant authorizing a designated official to submit this application and to execute contracts. |
| X | YES N/A | A copy of the cooperation agreement(s) (for projects involving more than one subdivision or district). |
| X | YES N/A | Copies of all invoices and warrants for those items identified as "pre-paid" in section 4.4 of this application. |

6.0 DISTRICT COMMITTEE CERTIFICATION

2

| William W. | Brayshaw, | Chairman, | District 2 | Integrating | Committee |
|------------------------|------------|-----------|------------|--|-----------|
| Certifying R | epresentat | ive (Type | Name and | d Title) | |
| | | _ | | | |
| William Signature/D | W. Bran | sha . | 4-20-92 | | |
| Signature/D | ate Signed | 1 | , , , , , | \-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\- | |

VILLAGE OF NORTH BEND

21 Taylor Avenue North Bend, Ohio 45052 (513) 941-0610

5 YEAR CAPITAL IMPROVEMENT PLAN VILLAGE OF NORTH BEND

| 1992 | , | Shady Lane Slip Harrison Avenue Rehab | MRF/Issue II CDBG/Issue II |
|------|---|--|-------------------------------|
| 1993 | | Symmes Avenue Reconstruction | Local/Issue II |
| 1994 | | Ohio Avenue Reconstruction | CDBG/Issue II |
| 1995 | | Miami Avenue Reconstruction | MRF/Issue II |
| 1996 | | Main Street Reconstruction | Local/Issue II |

VILLAGE OF NORTH BEND

21 Taylor Avenue North Bend, Ohio 45052 (513) 941-0610

VILLAGE OF NORTH BEND 2 YEAR LOCAL MAINTENANCE EFFORT

. :

| 1989 | Shady Lane Slip Phase I (MRF) | \$350,000 |
|------|--|------------------------|
| | en e | |
| 1990 | Crack Sealing Program Sidewalk Program (Local) | \$ 15,000 \$ 15,000 |
| | 1 | 1 |
| 1991 | Crack Sealing Program Street Patch Program (Local) | \$ 12,500 \$ 10,000 |

: ...

ENGINEER'S ESTIMATE SHADY LANE NORTH BEND

| DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | TOTAL |
|------------------------------|------|----------|------------|--------|
| Excavation | CY | 11,000 | 1.00 | 11,000 |
| Embankment | CY | 10,300 | 2.50 | 25,750 |
| Imported Material | CY | 700 | 10.00 | 7,000 |
| Full Depth Asphalt Course | CY | 250 | 60.00 | 15,000 |
| 18" Storm Drain | LF | 250 | 40.00 | 10,000 |
| 12" Storm Drain | LF | 200 | 30.00 | 6,000 |
| 8" Underdrain | LF | 400 | 10.00 | 4,000 |
| Catch Basin's | EA | 4 | 1,000.00 | 4,000 |
| Geo-Grid Filter Fabric | SY | 2,200 | 5.00 | 11,000 |
| Maintain Traffic | LS | 1 | 10,000.00 | 10,000 |
| Testing | LS | 1 | 15,000.00 | 15,000 |
| Layout | LS | 1 | 20,000.00 | 20,000 |
| Sedimentation Retention | LS | 1 | 11,250.00 | 11,250 |

Construction Cost......\$150,000.00

Joseph M. Allen, P.E.

USEFUL LIFE EXPECTANCY CERTIFICATION

This is to certify that upon successful completion of the Shady Lane Slip Project, the useful life expectancy will be 20 years.

Joseph M. Allen, P.E.

JOSEPH M.
ALLEN
E-49139
CONAL ENGINEER

VILLAGE OF NORTH SEND KasoLation No. 18192-1. RESOLUTION TO PARTICIPATEINAND Apply FOR FINANCIAL ASSISTANCE from the Ohro Public Works Gimmission It is hereby resolved by the conval of the Village of North Best, 4 duly elected Morth Best: North Willage of 1. Submit as application For humanal ASSISTANCE to the Ohno Public Worlds Commission under State Issue 2. 2. Ester isto as agreement with the obio Public Works Commission, and the majore is hereby inthoused to sign an agreement with the which Public Works Commission for Financial Assistance DoTED: February 10, 1992 Hawrine Pilem mayor Margaret trans Skirly Smith Gail Montage of the horsely certify that the fore going is a true daccurate copy of the original resolution # 1992-1 plassed February 13,1992.

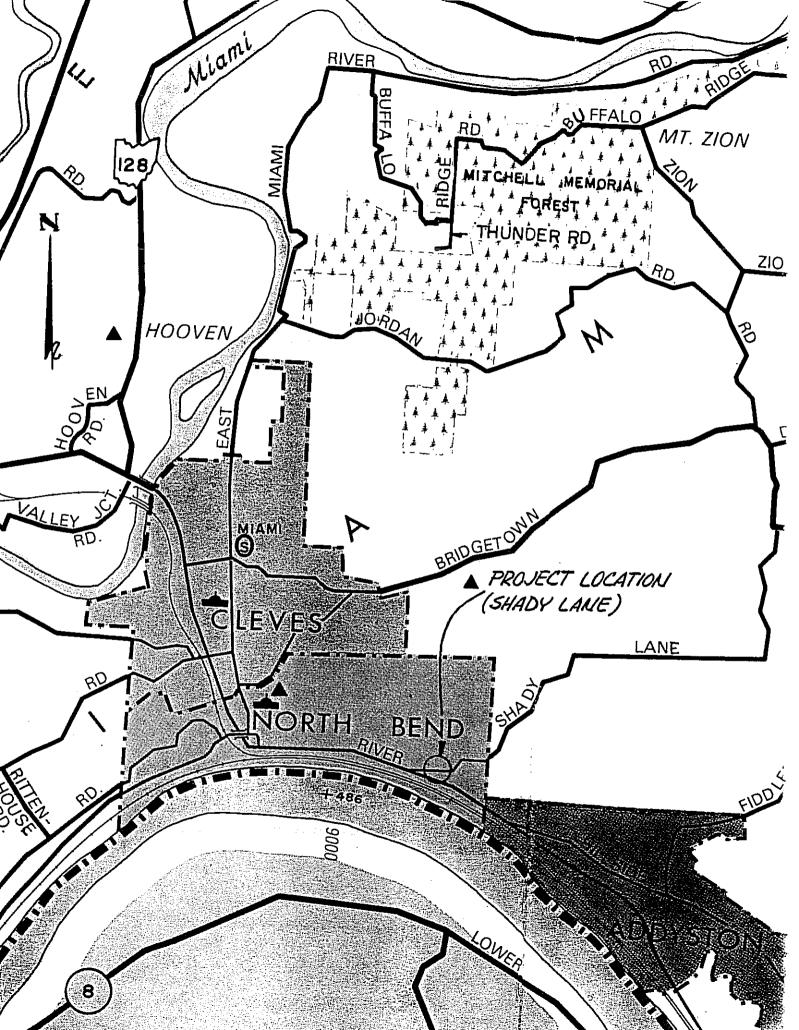
VILLAGE OF NORTH BEND

21 Taylor Avenue North Bend, Ohio 45052 (513) 941-0610

STATUS OF FUND REPORT

The Village of North Bend has been granted Emergency Municipal Road Fund Monies for its participation, from the Hamilton County Engineer's Office with concurrence from the Hamilton County Board of Commissioners, for the Shady Lane Slip Project for submittal for Issue II.

Lawrence P. Drew, Mayor





Area of Patching Where Slipping has Occurred



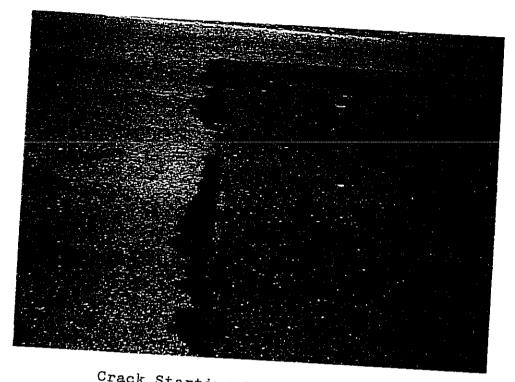
Pavement Failing in an Area Where Patching has already been Completed



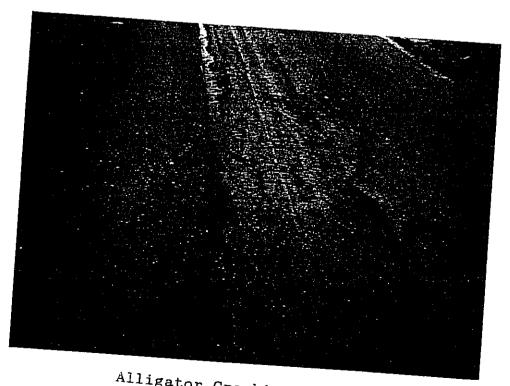
Upslope Hillside on Shady Lane



Pavement Sliding as Evidenced by Width of Crack



Crack Starting to Open in Slip Area



Alligator Cracking in Slip Area

GEOTECHNICAL INVESTIGATION AND REPORT

JOHN M. NIEHAUS, INC. SHADY LANE LANDSLIDE NORTH BEND, OHIO

ATEC FILE NUMBER: 22-03073

1.0 INTRODUCTION

This report presents the results of a geotechnical investigation and soils evaluation for the Shady Lane landslide. This study was performed in accordance with our written proposal dated May 3, 1990, and was authorized by Mr. John Niehaus.

The purpose of the investigation was to determine the types of subsoils present at the proposed site to the depths which would significantly affect the roadway, to evaluate the engineering characteristics of the subsurface materials, and to determine remedial measures applicable to the slope movement and subsequent road failure.

The scope of this investigation included a review of available geologic and soils data for the project area, a comprehensive subsurface investigation at the site in question consisting of four (4) standard soil test borings located as shown on the attached Boring Location Plan (Figure 1), field and laboratory soil testing, and an engineering analysis and evaluation of the subsurface conditions encountered at this site.

Site elevation data referred to herein was interpolated from a topographic survey of the area supplied to us by the client.

2.0 PROJECT AND SITE CHARACTERISTICS

The project site is located on the south side of Shady Lane, approximately 650 feet east of River Road (U.S. 50), in North Bend, Ohio. The landslide area is estimated to be about 225 feet long along Shady Lane, extending from just west of Boring #1 to just east of Boring #3. In the central portion of the slide area, the pavement has failed and has been patched, and the asphalt curb is pulling away from the edge of the road. Within about 35 feet of the roadway at this location, there are several trees on the hillside that are leaning noticeably downhill, as is the power pole near Boring At least one old building foundation is present on the slope near the road in this area. On the hillside to the southwest of the slide, there are several "S" and "J" bent trees indicating old land movements in the area. A drilled pier retaining wall is located along the south side of Shady Lane between the subject site and U.S. 50, also indicating a history of landsliding in this locale.

The site lies within a minor valley just to the north of its juncture with the Ohio River valley. Shady Lane runs along the north slope of this minor valley, and was apparently formed by cutting along the high (north) side of the road and filling on the low (south) side. The slope on the south side of the road, the subject of this study, is approximately 20 feet high at the east end of the project, and 40+ feet high at the west end. The hillside has an average gradient of about 3.0 horizontal to 1.0 vertical (3.0H:1.0V), but is in some places much steeper near the top of the slope. On the

uphill side of the road, the grade rises sharply at steeper than a 2.0H:1.0V slope, eventually flattening to greater than 3.0H:1.0V. The roadway has a gradient of about 5 percent, uphill to the east, at this location.

Drainage in the area consists of surface runoff over the road and subject slope. A large storm culvert collects water from uphill to the north and east of the project, crossing the road approximately 40 feet east of Boring #3, where it empties into a storm sewer that follows the valley downward to the southwest. The junction of this culvert and storm sewer has failed, which has resulted in a severe loss of ground at this point.

3.0 GENERAL SUBSURFACE CONDITIONS

Using standard rotary drill equipment, ATEC made a total of four (4) standard soil test borings for this investigation at the locations shown on the Boring Location Plan, Figure 1 in the Appendix to this report. The soil samples were returned to our soil mechanics laboratory in Cincinnati, Ohio, for the required analyses, testing and evaluation.

The subsurface soil profile and groundwater conditions are described in detail on the boring logs and shown graphically on the Generalized Soil Profile, Figure 2, in the Appendix to this report, but in general terms consist of the following.

3.1 Soil Profile

The two borings that were performed within the roadway (Borings #3 and #4) penetrated 3 inches of asphaltic pavement underlain by 12 inches of granular base material. Boring #1, which was performed in a grassy area, encountered 6 inches of topsoil at the surface.

Aside from the surficial materials described above, the subsurface materials at this site can be divided into four broad categories, these being fills, colluvial silty clays, residual silty clay, and weathered shale and limestone bedrock.

Fills or probable fills were encountered in Borings #1, #2 and #3 which were performed along the south side of the road near the crest of the slope. These fills extend to depths of 5.0 to 6.0 feet, and consist of brown or brown and gray sandy clay or silty clay. Minor components of the fill are cobbles, gravel, asphalt pieces and organic matter. The fill is generally medium stiff to stiff in compactness. Standard Penetration Test (N) values in the fill range from 5 to over 100 blows per foot (bpf). The high N values are believed due to the encounter of cobbles or large debris within the fill soil matrix. The fills are generally in a moist condition, with natural moisture contents in the 7 to 24 percent range.

Beneath the fill at Borings #1, #2 and #3, and below the pavement at Boring #4, brown to olive-brown silty clays were encountered. These soils grade into soft olive weathered shale below depths of about 12 feet in Borings #1 through #3, and below about 5 feet deep in Boring #4. The upper 5 feet of these silty clays are very weathered lack the horizontal striations of and the It is likely that the upper $5\pm$ feet of materials. natural soil is colluvium, i.e. soil that has been transported down from higher elevations by the force of These colluvial or very weathered residual soils are stiff to hard in consistency with N values of 10 to 100+ bpf being recorded. The underlying residual silty clays are very stiff to hard in consistency with N values of 100+ bpf. Some of the high N values in this

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material are due to the encounter of limestone layers interbedded with the residual soils and soft weathered shale.

Underlying the overburden materials described above, olive and gray shale and interbedded limestone was encountered, which grades to a gray shale and limestone at about 15± feet deep in Borings #1 and #2. A core sample of the gray shale and limestone obtained from 18 to 23 feet deep in Boring #2 indicates that the shale makes up 85 percent of the formation at this location, and that the bedrock is of poor structural quality as indicated by a Rock Quality Designation (RQD) value of 23. Published geological information for this area identifies this bedrock as being of the Kope Formation, Ordovician System.

3.2 Groundwater Conditions

Observations concerning groundwater were made during, at completion of, time after the and some In no instance was any groundwater noted in operations. the open boreholes, nor were any wet soil samples noted. Water was present in the slope inclinometer casing which was installed in Boring #2 at about 11 feet below the installation. after its month surface one However, this water is probably the remnants of that used to facilitate rock coring in this boring.

level depends groundwater on The observed variations in precipitation and surface runoff amounts. The true static groundwater level can only be determined through observations made in cased holes over a long period of time. Ground and/or surface water should be addressed during the construction of the proposed corrective measures for the project, as will be discussed in Section 5.0 of this report.

4.0 LOCAL GEOLOGIC EFFECTS ON LANDSLIDING

Numerous landslides have occurred in colluvium overlying the Kope Formation bedrock (as found at this site), and to a lesser degree the lower Fairview formation, in the Greater The failures can generally be categorized Cincinnati area. as either a deep-seated failure where the failure surface is at the colluvium-bedrock interface, or a rapid flow mudslide which may occur on the steeper hillsides. from these obvious movements, long term "creep" of overburden on hillsides in this area is known to occur. These rates of creep movement may be on the order of a few hundreths of an inch per year, or less. The first type of slide mentioned is most prevalent in our area, and often occurs over a long period of time. Total observed movements over the span of a year may not exceed 2 to 3 inches. Landslides have occurred on slopes over the Kope Formation that are inclined as little as 8 to 11 degrees (a 15 to 20 percent gradient). Fairview hillsides will typically stand as steep as 20 to 30 degrees.

The mechanics of these landslides are not completely understood at this time, but many agree that groundwater is an integral factor. It is believed that groundwater seepage along the soil/rock interface induces uplift pressures on the soil mass, reducing the effective shearing resistance along the potential failure plane. Also, added groundwater may add to the total weight of the soil mass, and induce hydrostatic pressures against the soil due to it's migration into tension cracks or man-made cuts uphill, both of which will add to the driving force of the slide. The fact that landslides are more frequent after periods of significant precipitation is probably due to one or more of the above factors.

It is also believed that the slide mechanics are related to the structure of the highly overconsolidated, weathered shales. Furthermore, the Fairview Formation hillsides generally being relatively steep, would not allow a buildup of a substantial thickness of colluvium as would the less steep Kope Formation slopes, thus keeping the potential landslide driving forces to a minimum. Also, the presence of a substantially lesser amount of limestone layers in the Kope Formation bedrock may result in a lower shearing resistance in those materials than in Fairview Formation bedrock.

Section 2.0, the evidence As mentioned in of slope instability at this site is obvious. The slopes here are substantially steeper (i.e. gradients of 33 percent or steeper versus 15 to 20 percent) than others known to be unstable given similar geologic conditions. The activities of man in the form of the cut and fill performed for the further road construction have aided the instability. Subtle changes in drainage. and thus groundwater conditions may also import, but be of are difficult to rigorously analyze.

5.0 GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS

Based upon our analysis of the soil conditions at this site, the following conclusions were reached, and the following recommendations were developed. The desired characteristics of the completed project were taken into consideration in light of the existing conditions, as was our experience with similar cases. It should be noted that the extent and mode of failure of landslides are highly time dependent, and the following recommendations are felt to be appropriate at this time. Should site conditions other than those previously described be observed prior to, or during the implementation of corrective measures, the soils engineer should be advised of such so that this report may be reviewed in light of the new information.

5.1 Analytical Procedures/General Discussion

In order to identify the landslide failure surface, a slope inclinometer casing was installed in Boring #2, which is located on the downhill side of the road, near the center of the damaged roadway section presumedly the landslide. Deformation measurements have been taken in the inclinometer at approximately one and four week intervals since its installation. readings are displayed on the Graphs of Deflection in the Appendix to this report. From this data it appears that the landslide is a translating type failure, the base of which is at approximately 12 feet below the ground surface at this location. The slide is estimated to have advanced about one-third of an inch in the month following the installation of the inclinometer.

Given the subsurface stratigraphy defined in our soil borings and the depth of the landslide failure plane as determined from the slope inclinometer, we performed a computer analysis utilizing the STABL4 Slope Stability program developed by Purdue University in order to locate the probable extent of the landslide, and to back-calculate the soils' engineering parameters for the analysis of potential remedial measures. The results of the computer slope stability analysis is illustrated on Figure 3 in the Appendix.

Based on the above data, we believe that the landslide consists of unstable fills and colluvium translating over stable natural soils or bedrock. It is our opinion that the instability is the result of the added weight of the fill at the top of hill, which hastened the movement of already marginally unstable colluvium over the more competent residuum or bedrock. The steepness of the upper portion of the slope has also likely contributed to

its failure. The degree to which site drainage and groundwater may have affected the slope's stability cannot be evaluated at this time. However, water infiltrating into the slope may have well lessened the stability of the slope, and should be taken into consideration in the design of any corrective measures. Such water infiltration would adversely affect the embankment stability by increasing the weight of the fill, adding seepage forces and hydrostatic pressures to the slide driving force, and weakening the soil shear strengths.

5.2 Recommended Remedial Measures

It is our opinion that the roadway can be stabilized by reconstructing the supporting fill embankment. Although this will require a relatively significant amount of earthwork and disruption to traffic, we feel that this is a viable solution. Also, we suggest that the use of a drilled pier retaining wall be considered, and the final choice between the two alternatives be made on an economic comparison, which is beyond the scope of this study.

A third possible solution, the construction of a keyway/buttress of select granular fill within the failing slope was also considered for this study. However, due to the great amount of expensive imported granular fill required for this alternative, it was judged to be less economically feasible than the other solutions considered.

Based on our assessment of the problem as previously discussed, we make the following recommendations for the two recommended alternatives.

5.2.1 Reconstruction of Embankment/Slope

that the existing fill embankment recommend We materials and natural soils be removed to the limits shown on Figure 4 in the Appendix. The embankment should then be reconstructed by replacing excavated soils with controlled, engineered fill. This treatment should extend from at least the location of Boring #3 to 40 feet west of Boring #1. The key points in this scheme are to bench the new fill into the hard, undisturbed, natural silty clay residuum or bedrock, and to maintain a finished slope of no steeper than 3.0H:10V. We recommend that the minimum bench width be 8 feet, and the maximum bench height be 2 feet for this project. The excavation should proceed from the south side of the road, progressing in a southerly, and downhill direction. In no case should any attempt be made to excavate at the toe of the slope first.

drain should be constructed A curtain juncture between the new embankment and existing This drain should soils, as shown in Figure 4. inch diameter perforated pipe consist of a 4 surrounded and backfilled with washed pea-sized gravel, which is in turn encased in a filter-type The zone of granular backfill should geotextile. have a minimum width of 18 inches, and should be capped with 2 feet of compacted clay and/or topsoil at the surface. The perforated pipe should have a proper outlet to the creek or storm sewer.

All earthwork should be performed in accordance with the enclosed recommendations in Section 6.0, or local governmental specifications if they are more stringent, as determined by the soils engineer. It appears as though the excavated material may be reused for structural fill, however, unacceptable materials may exist at locations intermediate to our boring locations. Care should be taken to screen any recycled soils, or off-site borrow materials for contamination with unacceptable materials such as rubble, topsoil, etc. All topsoil and vegetation should be stripped from the construction area at the onset of construction. Topsoil may only be incorporated into the upper 1.0 foot of the outer face of the new embankment slope, or in other non-structural areas.

We recommend that the surface drainage for the site be improved as much as possible. Stormwater should not be allowed to traverse the road and/or flow over the new embankment, but rather should be directed toward catch basins and the formal stormwater system Vegetative should possible. cover where established over the slope immediately after construction to control surface erosion.

5.2.2 Drilled Pier Retaining Wall

This alternative would also be applicable to the The drilled pier wall could be affected area. located just outside the berm of the road, and would act as a cantilever to support the unstable fill and colluvium by passive resistance resulting from penetration into the underlying bedrock. previous experience, and for cost estimating purposes only, it appears that 30 inch diameter piers socketed 10+ feet into the shale and limestone bedrock, with an overall length of 25+ feet, would Actual pier design parameters should be required. be determined from a rigorous engineering analysis,

and will depend on pier spacing (typically 5 to 6 feet), and other factors.

As with the embankment reconstruction alternative, proper surface drainage should be maintained. In addition, free draining granular fill should be used behind the required lagging for the pier wall to alleviate excess hydrostatic pressures. Various types of lagging could be used between the piers, such as precast concrete panels, heavy treated timber, etc. The lagging should extend to at least 2 feet beneath the identified fill in the soil profile to insure positive retainage of said fill.

Figure 5 in the Appendix illustrates the design criteria for a drilled pier retaining wall. The structural design of the pier wall is beyond our scope of work for this phase of the project. However, if requested, we would be glad to provide further design assistance to the client or his structural engineer.

Note that a drilled pier retaining wall could not positively prevent material downhill from the pier wall from continued movement. However, the driving forces against these materials would be greatly reduced, lessening the likelihood of such movement.

6.0 RECOMMENDED EARTHWORK PROCEDURES

6.1 Site Preparation

All vegetation, topsoil and other organic material or miscellaneous fill and debris should be removed from the construction areas prior to building or placing any fill on the site. After the completion of stripping and undercutting operations, the exposed subgrade areas should be proofrolled with suitable heavy equipment, preferably a 20 to 30-ton loaded dump truck. Any soft yielding areas delineated by the proofrolling should be undercut or otherwise stabilized as directed by the soils engineer.

6.2 Excavation

It is anticipated that there will be minimal difficulty experienced in excavating the site for this project with conventional equipment and methods. Unless specified otherwise, all temporary cut slopes in natural materials shall be no steeper than 1.0 horizontal to 1.0 vertical. All temporary cut slopes in existing fills should be no steeper than 1.5 horizontal to 1.0 vertical. In any case, all excavations should be properly laid back or braced in accordance with Occupational Safety and Health Administration (OSHA) requirements.

6.3 Fill

Once the embankment slope has been undercut and the subgrade has been properly prepared, fill may be placed in order to attain desired final grades. In general, any non-organic naturally-occurring soils or processed materials of the proper gradation can be used for structural fill. The fill should contain no pieces whose greatest dimension is larger than the thickness of the lift being placed. If fill construction takes place during the winter months, care should be taken so as not to place fill over frozen soil, nor should frozen materials be used within the fill.

The fill should be placed in lifts of uniform thickness. The lift thickness should not exceed that which can be

properly compacted throughout its entire depth with the equipment available. We recommend that structural fills within the roadway embankment be compacted to 100 percent of the maximum Standard Proctor dry density. For proper and timely construction of the fills, the soils should be placed at or near the optimum moisture content as determined by the specified Proctor test. Suitable equipment for either aerating or adding water to the fill materials should be available as the soil moisture and weather conditions dictate.

In general, it is recommended that fills supporting pavement extend a minimum of 5 feet beyond the pavement edge. Any fills placed on existing slopes that are steeper than 10 horizontal to 1 vertical should be properly benched into the existing slope as directed by the soils engineer. Unless otherwise authorized, permanent embankment slopes for earth fills constructed in accordance with the recommendations in this report should be no steeper than 3 horizontal to 1 vertical.

It is recommended that this firm be retained to perform continuous review of any construction of the soils related phases of this project. Otherwise, we assume no responsibility for construction compliance with the design concepts, specifications, or our recommendations. As part of this review, field density tests should be performed as frequently as necessary to assist in the evaluation of the fill with respect to the above recommendations.

7.0 FIELD AND LABORATORY INVESTIGATIONS

7.1 <u>Scope</u>

Field investigations to determine the general engineering characteristics of the foundation materials for this project included a reconnaissance of the site, performing soil test borings located approximately as shown on the enclosed Boring Location Plan, and making standard penetration tests on the in-situ soils. The apparent groundwater level at each boring location was also determined.

The types of subsurface materials encountered in the test borings have been visually classified by ATEC engineering staff, and are described in detail on the boring logs. The results of the field penetration tests, strength tests, water level observations, and laboratory water content and Atterberg Limit determinations, are present on the boring logs in numerical form. Representative samples of the soils encountered in the field were placed in sample jars and are now stored in our laboratory for further analysis, if desired. Unless we are notified to the contrary, all samples will be disposed of 30 days from the date of this report.

7.2 Field Investigations

The soil borings were performed with an ATV-mounted drilling rigs equipped with rotary heads. Conventional hollow-stem augers were used to advance the holes. Representative samples of the in-situ soils and rock were obtained employing split-barrel and diamond core barrel sampling procedures in accordance with ASTM Procedures D-1586 and D-2113, respectively.

7.3 <u>Laboratory Investigations</u>

conjunction with field In the investigations, supplemental laboratory investigation was conducted to determine additional pertinent engineering characteristics of the subsurface materials necessary for analvzing the existing embankment and proposed The laboratory testing program included improvements. supplementary visual classification tests on all samples. Atterberg Limits, unconfined compressive strength and natural water content tests were made on selected samples of soil. All phases of the laboratory investigation were conducted in general accordance with applicable ASTM specifications and procedures.

8.0 <u>SUMMARY</u>

An exploration and evaluation of the subsurface conditions has been conducted at the site of a landslide on Shady Lane in North Bend, Ohio for John Niehaus, Inc. Probable causes of the landslide and suggested corrective measures have been discussed. In summary, it is believed that the instability of the slope is confined to the fill and colluvial soils within 12± feet of the ground surface. We have recommended two (2) alternates for remediation, namely reconstruction of the embankment slope or a drilled pier retaining wall.

The exploration and analysis of the subsurface conditions at the subject site, as reported herein, are considered in sufficient detail and scope to form a reasonable basis for the final design of either remedial alternative, and an economic comparison of the two recommended alternative courses of action.

9.0 LIMITATIONS OF STUDY

Our recommendations for this project were developed utilizing soils information obtained from the test borings that were made at the proposed site. At this time we would like to point out that soil test borings only depict the soil conditions at the specific locations and time at which they were made. The soil conditions at other locations on the site may differ from those occurring at the boring locations; however, only minor variations are expected at this particular site.

The conclusions and recommendations herein have been based upon the available soil information and the preliminary design details furnished by a representative of the owner of the proposed project. Any revision in the plans for the proposed construction from those anticipated in this report should be brought to the attention of the soils engineer to determine whether any changes in the recommendations are necessary. If deviations from the noted subsurface conditions are encountered during construction, they should also be brought to the attention of the soils engineer.

The scope of our services does not include any environmental assessment or investigation for the presence or absence of hazardous or toxic materials in the soil, groundwater or surface water within or beyond the site studied. Any statements in this report or on the test boring logs regarding odors, staining of soils or other unusual conditions observed are strictly for the information of our client.

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This company is not responsible for the

conclusions, opinions, or recommendations made by others based upon the data included herein.

CERTIFICATE OF THE TOTAL AMOUNT FROM ALL SOURCES AVAILABLE FOR EXPENDITURES, AND BALANCES

Rev. Code, Sec. 5705.36

| From the: Village of Noveth Bend | Hamitton Country, |
|----------------------------------|-------------------|
| Aboth Bend, Ohio, | |

unty Auditor of said County:

lowing is the total amount from all sources available for expenditures from each fund set up in the tax budget, with the balances that exist at the end of the fiscal year ilst, 1951.

| | (1) | (2) | (3) | (4) | (5) | (6) |
|------------------------|---|--------------------------------------|---------------------------|---|--|--|
| nd Type/Classification | Cash Balance as of December 31, 19 <u>9 \</u> | Encumbrances as of December 31, 1991 | Advances not Repaid | Carryover Balance Available for Appropriation | Total Amount from all Sources Available for Expenditures | Total Amount Available plus Balances |
| ntal Fund Type | XXXX | XXXX | XXX | XXXX | XXXX | XXXX |
| neral Fund | 1 22 1689.00 | <000.00 I | | 17 684.00 | 176 PT | 196 960,00 |
| ecial Revenue Funds | 3'559.00 | 500.00 | | ₹\<9°° | 34,000,00 | 37'059.∞ |
| -bt Service Funds | 11 326 00 | | | 3.× ∞ | 10,842. | ⊃1. &⊥r ∞ |
| inital Projects Funds | 180200 | - | - | 1 80 2.00 | 1802.00 | 14653.80 |
| ecial Assessment Fund | 79.00 | | _ | 79.00 | 79.00 | 70,00 |
| v Fund Type | XXXX | XXXX | XXX | XXXX | XXXX | XXXX |
| sterprise Funds | | | | | | |
| ternal Service Funds | | | | l | | |
| Fund Type | XXXX | XXXX | XXX | I XXXX | XXXX | XXXX |
| ust and Agency Funds | 547.00 | | | | | . 547.00 |
| <u> </u> | 136,00 | 1 | | ماهرا | S168,∞ | 530100 |
| OTAL ALL FUNDS | 40 138 °° | <u>5500.**</u> | | 34,091,00 | <u>,⊃33,063,∞</u> | ಎಂ.೧೭೨ ಎಂ. |
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| | | | | i | | |

ORDINANCE No. 1992 -1

ANNUAL APPROPRIATION ORDINANCE

(VILLAGE) (Revised Code Sec. 5705,78)

An ORDINANCE to make appropriations for Current Expenses and other Expenditures of the Village of With Bond, State of Ohlo, during the fiscal year ending December 31, 1992 Section 1. BE IT RESOLVED by the Council of the Village of State of Ohio, that, to provide for the current expenses and other expenditures of the said Village of during the fiscal year ending December 31, 19 $\stackrel{q}{\Longrightarrow}$ the following sums be and they are hereby set aside and appropriated as follows, viz:

Section 2. That there be appropriated from the GENERAL FUND:

RTY

| FROGRAM I — SECUI | RITY OF PERSONS AND PROPER |
|--------------------------------------|----------------------------|
| Police Law Enforcement | |
| 210 Personal Services | |
| 211 Salaries/Wages | : 10000 |
| 212 Employee Benefits | 6600 |
| 220 Travel Transportation | |
| 230 Contractual Services | |
| 240 Supplies and Materials | <u>30,000</u> |
| 250 Capital Outlay | |
| Total Police Law Enforce | ment \$ 116,000 |
| Fire Fighting, Prevention and Inspec | tion |
| 210 Personal Services | |
| 211 Salaries/Wages | \$ |
| 212 Employee Benefits | <u> </u> |
| 220 Travel Transportation | |
| 230 Contractual Services | 30∞ |
| 240 Supplies and Materials | <u> </u> |
| 250 Capital Outlay | |
| Total Fire Fighting, Preventic | on and Inspection \$ 5700 |

| 210 Personal Services | | |
|---|--|---|
| 211 Salaries/Wages | \$ | |
| 212 Employee Benefits | | |
| 220 Travel Transportation | | |
| 230 Contractual Services | 6000 | |
| 240 Supplies and Materials | · · | |
| 250 Capital Outlay | | |
| Total Street Lighting | <u>; 6000</u> | |
| Civil Defense | | |
| 210 Personal Services | | • |
| 211 Salaries/Wages | • | |
| _ | * | |
| 212 Employee Benefits 220 Travel Transportation | | |
| | | |
| | | |
| | | |
| | | |
| Total Civil Defense | \$ | |
| Traffic Signals, Signs and Markings | | |
| 210 Personal Services | | |
| 211 Salaries/Wages | \$ | |
| 212 Employee Benefits | | |
| 220 Travel Transportation | | |
| 230 Contractual Services | | |
| 240 Supplies and Materials | | |
| 250 Capital Outlay | | |
| Total Traffic Signals, Sign | ns and Markings \$ | |
| | | |
| Other Security of Persons and Proper | rty | |
| 210 Personal Services | | |
| 211 Salaries/Wages | \$ | • |
| 212 Employee Benefits | <u>- </u> | |
| 220 Travel Transportation | | |
| 230 Contractual Services | • | |
| 240 Supplies and Materials | | |
| 250 Capital Outlay | | |
| Total Other Security of Perso | ons and Property \$ | |

Total Program I - Security of Persons and Property \$/27,700

| Cemeter | гу | |
|---|--|------------------------|
| 210 | Personal Services | 4 |
| | 211 Salaries/Wages | \$ |
| | 212 Employee Benefits | |
| 220 | Travel Transportation | |
| 230 | Contractual Services | |
| 240 | Supplies and Materials | · · · |
| 250 | Capital Outlay | |
| | Total Cemetery | \$ |
| Paymen | t to County Health District | • |
| 210 | Personal Services | |
| | 211 Salaries/Wages | \$ |
| | 212 Employee Benefits | |
| 220 | Travel Transportation | · |
| 230 | Contractual Services | 360 |
| 240 | Supplies and Materials | |
| 250 | Capital Outlay | |
| | | 200 |
| | Total Payment to County 1 | Health District \$ 300 |
| Payment | | |
| Payment | Total Payment to County l to Human Services Program Personal Services | |
| | to Human Services Program Personal Services | |
| | to Human Services Program Personal Services | |
| 210 | to Human Services Program Personal Services 211 Salaries/Wages | |
| 210 220 | to Human Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation | |
| 210 220 | to Human Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits | |
| 210 220 230 240 | to Human Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services | |
| 210 220 230 240 | to Human Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services Supplies and Materials | \$ |
| 220 230 240 250 | to Human Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services Supplies and Materials Capital Outlay | \$ |
| 220 230 240 250 | to Human Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services Supplies and Materials Capital Outlay Total Payment to Human Se | \$ |
| 220 230 240 250 Other As | Personal Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services Supplies and Materials Capital Outlay Total Payment to Human Services | \$ |
| 220 230 240 250 Other As | Personal Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services Supplies and Materials Capital Outlay Total Payment to Human Sesistance to the Needy Personal Services | \$ervices Program \$ |
| 220 230 240 250 Other As | to Human Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services Supplies and Materials Capital Outlay Total Payment to Human Services sistance to the Needy Personal Services 211 Salaries/Wages | \$ervices Program \$ |
| 220 230 240 250 Other As 210 | to Human Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services Supplies and Materials Capital Outlay Total Payment to Human Sessistance to the Needy Personal Services 211 Salaries/Wages 212 Employee Benefits | \$ervices Program \$ |
| 220 230 240 250 Other As 210 | Personal Services Program Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation Contractual Services Supplies and Materials Capital Outlay Total Payment to Human Sessistance to the Needy Personal Services 211 Salaries/Wages 212 Employee Benefits Travel Transportation | \$ervices Program \$ |

Total Other Assistance to the Needy

| 210 Personal Services | |
|--|--------------------|
| 211 Salaries/Wages \$ | |
| 212 Employee Benefits | |
| 220 Travel Transportation | |
| 230 Contractual Services | |
| 240 Supplies and Materials | |
| 250 Capital Outlay | • |
| Total Other Public Health \$ | |
| Total Program II Public Health and Human Service | ces \$ <u>300.</u> |
| PROGRAM III — LEISURE TIME ACTIVITIES | |
| Recreation Programs | • |
| 210 Personal Services | |
| 211 Salaries/Wages \$ | |
| 212 Employee Benefits | |
| 220 Travel Transportation | |
| 230 Contractual Services | |
| 240 Supplies and Materials | |
| 250 Capital Outlay | |
| Total Recreation Programs \$ | |
| Provide and Maintain Parks | |
| 210 Personal Services | |
| | |
| 211 Salaries/Wages \$ 212 Employee Benefits | |
| 220 Travel Transportation | |
| 230 Contractual Services | |
| 240 Supplies and Materials | |
| 250 Capital Continu | |
| Total Brazilla and M. C. C. D. | |
| Total Provide and Maintain Parks \$ | - |
| Cultural Facilities | |
| 210 Personal Services | |
| 211 Salaries/Wages \$ | |
| 212 Employee Benefits | |
| 220 Travel Transportation | |
| 230 Contractual Services | |
| 240 Supplies and Materials | |
| 250 Capital Outlay | |

Total Cultural Facilities

| | 211 Salaries/Wages | \$ | | |
|---------|----------------------------|----------------|--------------|------------|
| | 212 Employee Benefits | | _ | |
| 220 | Travel Transportation | <u></u> | <u>.</u> | |
| 230 | Contractual Services | | | |
| 240 | Supplies and Materials | | _ | |
| 250 | Capital Outlay | | <u> </u> | |
| | Total Swimming Pool | ; | \$ | <u>.</u> . |
| Concess | | | | |
| | Personal Services | | | |
| 210 | 211 Salaries/Wages | _ | | |
| | _ | \$ | - ' | |
| 990 | 212 Employee Benefits | <u> </u> | | |
| | Travel Transportation | | _ | |
| | Contractual Services | | - | |
| 240 | - Prince Management | | <u></u> | |
| 250 | Capital Outlay | | - | |
| | Total Concessions | | \$ | |
| Other L | eisure Time Activities | | | |
| 210 | Personal Services | | | |
| | 211 Salaries/Wages | \$ | | |
| | 212 Employee Benefits | | | |
| 220 | Travel Transportation | | | |
| 230 | Contractual Services | - | | |
| 240 | Supplies and Materials | | | • |
| 250 | Capital Outlay | | | |
| | Total Other Leisure Time | Activities | \$ | |
| | Total Program III — | Leisure Time A | ctivities | \$ |
| | PROGRAM IV — CO | MMUNITY ENV | TRONMENT | |
| Communi | ty Planning and Zoning | | | |
| 210 | Personal Services | | | · • |
| 2 | 211 Salaries/Wages | \$ | | - |
| 2 | 212 Employee Benefits | | | |
| 220 1 | Fravel Transportation | | | |
| 230 (| Contractual Services | <u></u> | | |
| 240 8 | upplies and Materials | | | |
| 250 C | apital Outlay | 500 | | |
| | m | | ٠. سر | |

Total Community Planning and Zoning

| Public Housing Projects | | |
|---|-------------------------|--|
| 210 Personal Services | . | |
| 211 Salaries/Wages | \$ | |
| 212 Employee Benefits | | - |
| 220 Travel Transportation | | |
| 230 Contractual Services | | |
| 240 Supplies and Materials | | |
| 250 Capital Outlay | | |
| Total Public Housing Pr | rojects \$ | |
| Other Community Environment | | |
| 210 Personal Services | | |
| 211 Salaries/Wages | \$ | |
| 212 Employee Benefits | | |
| 220 Travel Transportation | | |
| 230 Contractual Services | | |
| 240 Supplies and Materials | | |
| 250 Capital Outlay | | |
| Total Other Community I | Environment \$ | |
| Total Program IV - | - Community Environment | <u> ১০০ </u> |
| PROGRAM V — | BASIC UTILITY SERVICES | |
| Electric Utility | | |
| 210 Personal Services | | |
| 211 Salaries/Wages | \$ | |
| 212 Employee Benefits | | |
| 220 Travel Transportation | | |
| 230 Contractual Services | | |
| 240 Supplies and Materials | | |
| 250 Capital Outlay | | • |
| Total Electric Utility | \$ | • |
| Gas Utility | | |
| 210 Personal Services | • | |
| 211 Salaries/Wages | \$ | |
| 212 Employee Benefits | ···· | |
| 220 Travel Transportation | | |
| | | |
| 230 Contractual Services | | |
| 230 Contractual Services 240 Supplies and Materials | | |

Total Gas Utility

| other reansportation | |
|---|--------------|
| 210 Personal Services | |
| 211 Salaries/Wages \$ | |
| 212 Employee Benefits | _ |
| 220 Travel Transportation | _ |
| 230 Contractual Services | - |
| 240 Supplies and Materials | · |
| 250 Capital Outlay | _ |
| Total Other Transportation | \$ |
| Total Program VI — Transportation | |
| PROGRAM VII — GENERAL GOV | ERNMENT |
| Mayor and Administrative Offices | |
| 210 Personal Services | • . , |
| 211 Salaries/Wages \$2/400 | - |
| 212 Employee Benefits 5600 | <u>.</u> |
| 220 Travel Transportation | - |
| 230 Contractual Services | - |
| 240 Supplies and Materials 7000 | - |
| 250 Capital Outlay | |
| Total Mayor and Administrative Offices | :33400 |
| Legislative Activities (Council) | |
| 210 Personal Services | |
| 211 Salaries/Wages Pur 3950 | • |
| 212 Employee Benefits | |
| 220 Travel Transportation | |
| 230 Contractual Services | |
| 240 Supplies and Materials | |
| 250 Capital Outlay | |
| Total Legislative Activities | :_3950 |
| | · |
| Mayor's Court | |
| 210 Personal Services | |
| 211 Salaries/Wages \$ | |
| 212 Employee Benefits | |
| 220 Travel Transportation | |
| 230 Contractual Services | |
| 240 Supplies and Materials | |
| 250 Capital Outlay | |

Total Mayor's Court

| • | |
|----------------------------|---|
| Clerk, Treasurer | |
| 210 Personal Services | |
| 211 Salaries/Wages | · 5700 |
| 212 Employee Benefits | |
| 220 Travel Transportation | |
| 230 Contractual Services | , |
| 240 Supplies and Materials | • |
| 250 Capital Outlay | · |
| Total Clerk, Treasurer | <u> 5700</u> |
| Lands and Buildings | |
| 210 Personal Services | |
| 211 Salaries/Wages | \$ |
| 212 Employee Benefits | |
| 220 Travel Transportation | |
| 230 Contractual Services | •- |
| 240 Supplies and Materials | 15000 |
| 250 Capital Outlay | 5000 |
| Total Lands and Buildings | : <u>೨೦:,600</u> |
| oards and Commissions | |
| 210 Personal Services | |
| 011 01 | • |

В

| · | | | |
|--------------------|---|---|--|
| 211 Salaries/Wages | _ | • | |
| Juneance It ages | ž | | |
| Workmins Conp | , | | |

212 Employee Benefits 6000 220 Travel Transportation

230 Contractual Services

240 Supplies and Materials

250 Capital Outlay

Total Boards and Commissions

County Auditor's and Treasurer's Fees

Auditor of State's Fees

| Solicito | or | | | |
|-------------------|----------------------------------|-------------------|-------------------|----------------------|
| 210 | Personal Services | | | |
| | 211 Salaries/Wages | <u> 10000</u> | 1000 | |
| • | 212 Employee Benefits | | _ | •• |
| 220 | Travel Transportation | | - | |
| 230 | Contractual Services | | - | |
| 240 | Supplies and Materials | | • | |
| 250 | Capital Outlay | | • | |
| | Total Solicitor | | <u>\$ 10,080</u> | |
| Other G | eneral Government | • | • | |
| 210 | Personal Services | | | |
| | 211 Salaries/Wages | \$ | | |
| | 212 Employee Benefits | | | |
| 220 | | | | |
| 230 | Engineer Contractual Services | 8600 | | |
| 240 | Supplies and Materials | | | |
| 250 | Capital Outlay | | | |
| | Total Other General Govern | nment | <u> 8600</u> | |
| | Total Program VII — | General Govern | ment | : 88,650 |
| Other Us | es of Funds | | | • |
| 271 | Transfers . | \$ | | |
| 273 | Other Uses | | | |
| | Total Other Uses of Funds | <u> </u> | | \$ |
| , | | | | |
| SECTION 3. | That there be appropriated fro | om the GENERAL | FUND for contin | gencies for nurnosos |
| not otherwise pro | vided for, to be expended in acc | cordance with the | provisions of Sec | ction 6705 40 D C |
| the sum of | | | | s |
| | | | | *** |
| GRAND TO | OTAL GENERAL FUND APPR | ODDIAMA | | ~ |

PROGRAM VI - TRANSPORTATION

| D+2 CC1 | Cousting and Mecoustracti | ion | |
|----------|-----------------------------|--------------------|----------------|
| 210 | Personal Services | ; | |
| | 211 Salaries/Wages | \$ | |
| | 212 Employee Benefits | | |
| 220 | Travel Transportation | | |
| 230 | Contractual Services | <u></u> | • |
| 240 | Supplies and Materials | | |
| 250 | Capital Outlay | | |
| | Total Street Construction a | and Reconstruction | \$ |
| Street : | Maintenance and Repair | | |
| 210 | Personal Services | | |
| | 211 Salaries/Wages | 125,500 |) |
| | 212 Employee Benefits | 6000 | |
| 220 | Travel Transportation | | |
| 230 | Contractual Services | | |
| 240 | Supplies and Materials | <u>3000</u> | |
| 250 | Capital Outlay | | |
| | Total Street Maintenance | and Repair | <u>:34,500</u> |
| Street C | leaning, Snow and Ice Remov | al | |
| 210 | Personal Services | • | |
| | 211 Salaries/Wuges | \$ | |
| | 212 Employee Benefits | | |
| 220 | Travel Transportation | • | |
| 230 | Contractual Services | | |
| 240 | Supplies and Materials | | |
| 250 | Capital Outlay | | |
| | Total Street Cleaning, Snow | and Ice Removal | \$ |

| Other 7 | ransportation | |
|----------|---|---------|
| 210 | Personal Services | 4 |
| | 211 Salaries/Wages \$ | • |
| | 212 Employee Benefits | |
| 220 | Travel Transportation | |
| 230 | Contractual Services | |
| 240 | Supplies and Materials | • |
| 250 | Capital Outlay | |
| | Total Other Transportation | \$ |
| Other U | ses of Funds | • |
| 271 | Transfers \$ | |
| 273 | Other Uses | |
| | Total Other Uses Funds | \$ |
| | Total for Street Construction, Maintenance and Repair Fund | :34,500 |
| | PROGRAM VI — TRANSPORT | ATION |
| State H | ighway and Improvement Fund | |
| Street C | onstruction and Reconstruction | |
| 210 | Personal Services | |
| | 211 Salaries/Wages \$ /600 | • |
| | 212 Employee Benefits | |
| 220 | Travel Transportation | |
| 230 | Contractual Services | |
| 240 | Supplies and Materials | |
| 250 | Capital Outlay | |
| | Total Street Construction and Reconstruction | s 1600 |
| Street M | Isintenance and Repair | |
| 210 | Personal Services | |
| | 211 Salaries/Wages \$ | |
| | 212 Employee Benefits | |
| 220 | Travel Transportation | |
| 230 | Contractual Services | |
| 240 | Supplies and Materials | |
| 250 | Capital Outlay | |

Total Street Maintenance and Repair

| | • | | | |
|---------|---|-------------|----|---------|
| Sidewal | ks | | | |
| 210 | Personal Services | | .: | |
| | 211 Salaries/Wages | \$ | | |
| | 212 Employee Benefits | | | |
| 220 | Travel Transportation | | | |
| 230 | Contractual Services | | | |
| 240 | Supplies and Materials | | | • |
| 250 | Capital Outlay | | • | ~ |
| | Total Sidewalks | | \$ | |
| Other T | ransportation | | | • |
| 210 | Personal Services | | | |
| • | 211 Salaries/Wages | \$ | | |
| | 212 Employee Benefits | | • | |
| 220 | Travel Transportation | | | |
| 230 | Contractual Services | | | |
| 240 | Supplies and Materials | | | |
| 250 | Capital Outlay | | | |
| | Total Other Transportation | | \$ | |
| Other U | ses of Funds | | | |
| 271 | Transfers | \$ | | |
| 273 | Other Uses | | • | |
| | Total Other Uses of Funds | | \$ | |
| | Total for State Highway Im Program IV — Transports | | | s_1600. |
| TEDV 61 | JAID | | | |

CEMETERY FUND

PROGRAM II - PUBLIC HEALTH SERVICES

| Cemeter | У | |
|---------|------------------------|---------------|
| 210 | Personal Services | |
| | 211 Salaries/Wages | \$ |
| | 212 Employee Benefits | |
| 220 | Travel Transportation | |
| 230 | Contractual Services | - |
| 240 | Supplies and Materials | |
| 250 | Capital Outlay | |
| | Total Cemetery | \$. |

| Other (| ses of Funds | | |
|--------------|---|---------------|--------------------|
| 271 | Transfers | \$ | 2 |
| 273 | Other Uses | | |
| | Total Other Uses of Fun | ds | \$ |
| | Total for State Grant Fu (Specify) Program | nd | \$ |
| | | | • |
| OTHER SPECI | AL REVENUE FUNDS (Spec | | |
| | (SPECIFY) PROGE | RAM | DEMISSIVE TAX |
| Others (| Specify) | | • |
| 210 | Personal Services | | |
| • | 211 Salaries/Wages | \$ | |
| | 212 Employee Benefits | | |
| 220 | Travel Transportation | | |
| 230 | Contractual Services | - | |
| 240 | Supplies and Materials | | |
| 250 | Capital Outlay | 6000 | ISSUL#2 : 6000. |
| | Total Other (Specify Fund) |) | <u>s 6000.</u> |
| Other Us | es of Funds | | |
| 271 | Transfers | \$ | |
| 273 | Other Uses | • | |
| | Total Other Uses of Funds | | \$ |
| | Total for Other Special Re (Specify) | | \$ |
| LAW ENFORCEM | IENT TRUST FUND | | |
| | PROGRAM I — SECURITY | OF PERSONS | AND PROPERTY |
| Police Law | Enforcement | | |
| 210 P | ersonal Services | | |
| 2 | 11 Salaries/Wages . | \$ | |
| 21 | 2 Employee Benefits | | |
| 220 Tı | avel Transportation | | |
| 230 Co | ntractual Services | | |
| 240 Su | pplies and Materials | | |
| 250 Ca | pital Outlay | | |
| • | Total Police Law Enforcement | | • |

| Other | Uses of Funds | |
|-----------|--|-------------|
| 27 | I Transfers \$ | |
| 27: | 3 Other Uses | • |
| | Total Other Uses of Funds | \$. |
| | Total for Drug Law Enforcement Fu Program I | s |
| MOTOR VEH | ICLE LICENSE TAX FUND | · |
| | PROGRAM VI — TRANS | PORTATION |
| Street | Construction and Reconstruction | |
| · 210 | Personal Services | • |
| | 211 Salaries/Wages \$ | |
| · | 212 Employee Benefits | |
| 220 | Travel Transportation | <u> </u> |
| 230 | Contractual Services | <u> </u> |
| 240 | Supplies and Materials | |
| 250 | Capital Outlay | |
| | Total Street Construction and Reconstru | uction \$ |
| Other T | ¹ma= | |
| | ransportation Personal Services | |
| 210 | • | |
| | 211 Salaries/Wages \$ | |
| 000 | 212 Employee Benefits | |
| 230 | Travel Transportation | |
| _ | | |
| | Supplies and Materials | |
| 200 | Capital Outlay | |
| | Total Other Transportation | \$ |
| Other Us | ses of Funds | |
| 271 | Transfers \$ | |
| 273 | Other Uses | <u>-</u> _ |
| | Total Other Uses of Funds | \$ |
| | Total for Motor Vehicle License Tax Fu Program VI | und \$ |

GRAND TOTAL SPECIAL REVENUE FUND APROPRIATION

:42100.

SECTION 5. That there be appropriated from the following DEBT SERVICE FUNDS:

| GENERAL OBLIGATION BOND | FUND | - : | |
|-----------------------------------|-----------------------------------|-------------------|-----------------|
| (SPECIF | Y) PROGRAM Eine Y | Ruck Bond | Retreement Fund |
| Principal | <u> </u> | | •- |
| Interest | <u> 3000.</u> | | |
| Other Debt Service | : 93a | <u>) .</u> | |
| - Total Program | (Specify) | : <u>19,3</u> 22. | |
| (SP | ECIFY) PROGRAM | - | |
| Principal | \$ | ٠ | |
| Interest | \$ | | |
| Other | \$ | | |
| Total Program | (Specify) | \$ | |
| TOTAL FOR GE BOND FUND A | ENERAL OBLIGATION PPROPRIATION | <u>; 19322.</u> | |
| (SPECIFY | r) PROGRAM | | |
| Principal | \$ | | |
| Interest | \$ | _ | |
| Other | . \$ | - . | |
| Total Program | (Specify) | \$ | |
| (SPECIFY) |) PROGRAM | | |
| Principal | \$ | | |
| Interest | \$ | _ | |
| Other | \$ | | |
| Total Program | (Specify) | | |
| | Oebt Service Fund | \$ | |
| GRAND TOTAL DEB FUND APPROPRIA | T SERVICE ATIONS | • | |

SECTION 6. That there be appropriated from the following CAPITAL PROJECTS FUNDS:

CONSTRUCTION FUND

| | (SPECIFY) PROGR | RAM | |
|-----------|--|----------------------------|----------------|
| (Specify) | — Construction | n Fund | |
| 250 | Capital Outlay | \$ | |
| 260 | Debt Service | \$ | _ |
| 270 | Other Uses of Funds | \$ | _ |
| Othe | r Construction | \$ | _ |
| | Total Program (Spe | eify) | \$ <u>·</u> |
| | Total for Construction Fun (Specify) | | \$ |
| Federal (| Grant Fund (Specify) | | |
| | (SPECIFY) PROGRA | AM | |
| Federal (| Grant Fund (Specify) CE7 | 4 | |
| 250 | Capital Outlay | <u>s 6000</u> | |
| 260 | Debt Service | \$ | |
| 270 | Other Uses of Funds | \$ | |
| Other | Federal Grant | \$ | |
| | Total Program (Spec | Lfy) | \$ |
| | Total for Federal Grant Fu (Specify) | nd Appropriation | <u> : 6000</u> |
| Other Cap | ital Projects Funds (Specify) | | |
| | (SPECIFY) PROGRA | м | |
| Other Cap | ital Projects (Specify) | | |
| 250 C | Capital Outlay | \$ | |
| 260 E | ebt Service | \$ | |
| 270 0 | ther Uses of Funds | \$ | |
| Other (| Capital Projects | \$ | |
| | Total Program (Specif | у) | \$ |
| | Total for Other Capital Proje (Specify) | cts Funds Appropriation | \$ |

GRAND TOTAL CAPITAL PROJECTS FUND APPROPRIATION

<u> 6000</u>

| Other | Specia | il Assessment Improveme | nt | | |
|--|---|---|--|----------------------|-----|
| 210 |) Per | sonal Services | | 4 | • |
| | 211 | Salaries/Wages | \$ | | |
| | 212 | Employee Benefits | | | |
| 220 |) Tra | vel Transportation | | : | |
| 230 |) Cor | ntractual Services | | | |
| 240 |) Sup | plies and Materials | | : | • |
| 250 |) Car | ital Outlay | | | |
| | T | otal Other Special Assessment Improvemen | L | \$ | |
| Other | Uses o | f Funds | | • | • |
| 271 | Tra | nsfers | \$ | | |
| 273 | Oth | er Uses | | | |
| | T | otal Other Uses Funds | | \$ | |
| | T | otal for Special Assessme Improvement Fund Appr | | | \$ |
| | | | | | • |
| Special | Asse | ssment Operating Funds (| Specify) | | |
| | | | | | / |
| | | (SPECIFY) PRO | GRAM | ife Sgv | ad. |
| Special | Asses | (SPECIFY) PRO | | life Squ | ad. |
| | | • | | ! <u>. fe. Sgv</u> | gd. |
| | | ssment Operation (Specify sonal Services | | ! <u>. fe. Sgv</u> . | gd. |
| | Pers 211 | ssment Operation (Specify | | <u>l. fe. Sgv</u> | gd. |
| | Pers 211 212 | ssment Operation (Specify sonal Services Salaries/Wages | | <u>l. fe. Sgv</u> | |
| 210 220 | Pers 211 212 Trav | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits | | <u>l. fe. Sgv</u> . | ed. |
| 210 220 | Pers 211 212 Trav Cons | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits rel Transportation | | <u>l. fe. Sgv</u> | ed. |
| 210 220 230 | Pers 211 212 Trav Cont | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits rel Transportation tractual Services | | <u>. fe. Sgv</u> | |
| 220 230 240 | Pers 211 212 Trav Cont Supp | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits vel Transportation tractual Services plies and Materials | \$ \$ \$\sigma \sigma \s | | ed. |
| 220 230 240 250 | Pers 211 212 Trav Cont Supp Capi | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits vel Transportation tractual Services plies and Materials stal Outlay | \$ \$ \$\sigma \sigma \s | | ed. |
| 220 230 240 250 | Pers 211 212 Trav Cont Supp Capi | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits rel Transportation tractual Services plies and Materials ital Outlay otal Special Assessment Operation Project (Specif | \$ \$ \$\sigma \sigma \s | | ed. |
| 220 230 240 250 Other S | Pers 211 212 Trav Cont Supp Capi | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits rel Transportation tractual Services plies and Materials stal Outlay otal Special Assessment Operation Project (Specif | \$ \$ \$\sigma \sigma \s | | |
| 220 230 240 250 Other S | Pers | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits vel Transportation tractual Services plies and Materials ital Outlay otal Special Assessment Operation Project (Specif Assessment Operation onal Services | \$ \$\sigma \sigma \ | | i. |
| 220 230 240 250 Other S | Pers 211 212 Trav Con Sup Capi To pecial Pers 211 | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits vel Transportation tractual Services plies and Materials stal Outlay otal Special Assessment Operation Project (Specify Assessment Operation onal Services Salaries/Wages | \$ \$\sigma \sigma \ | | |
| 220 230 240 250 Other S | Pers 211 212 Trav Conf Supp Capi To pecial Pers 211 212 Trav | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits vel Transportation tractual Services plies and Materials stal Outlay otal Special Assessment Operation Project (Specify Assessment Operation onal Services Salaries/Wages Employee Benefits | \$ \$\sigma \sigma \ | | ed. |
| 220 230 240 250 Other S 210 | Pers 211 212 Trav Conf Supp Capi To pecial Pers 211 212 Trav Cont | ssment Operation (Specify sonal Services Salaries/Wages Employee Benefits rel Transportation tractual Services plies and Materials stal Outlay otal Special Assessment Operation Project (Specify Assessment Operation onal Services Salaries/Wages Employee Benefits el Transportation | \$ \$\sigma \sigma \ | | i. |

. . .

Total Other Special Assessment Operation

| Other I | Jses of Funds | | | |
|---------------|---|-----------------------------------|---------------------------------------|---------------|
| 271 | Transfers | \$ | - <u>'</u> | |
| 273 | Other Uses | | - | |
| | Total Other Uses of Funds | 3 | \$ | - |
| | Total for Special Assessme (Specify) | ent Operating Fu Appropriation | ınd | \$ |
| Other Special | Assessment Fund (Specify) | · | | |
| | (SPECIFY) PROGRA | | | |
| Special | Assessment (Specify) | | · · · · · · · · · · · · · · · · · · · | |
| | Personal Services | | • | • |
| | 211 Salaries/Wages | \$ | | |
| | 212 Employee Benefits | | | |
| 220 | Travel Transportation | | | • |
| 230 | Contractual Services | | | |
| 240 | Supplies and Materials | | | |
| 250 | Capital Outlay | <u></u> | | |
| | Total Special Assessment | | \$ | |
| Other Sr | pecial Assessment Fund | | | |
| | Personal Services | | | |
| | 211 Salaries/Wages | s_ | | |
| | 212 Employee Benefits | <u> </u> | | |
| 220 | Travel Transportation | | | |
| | Contractual Services | | | • |
| | Supplies and Materials | | | |
| | Capital Outlay | | | |
| | Total Other Special | | s | |
| Other Us | es of Funds | | | |
| | Transfers | s · | | |
| 273 | Other Uses | | | |
| | Total Other Uses of Funds | | \$ | |
| | Total for Other Special Asse (Specify) | essment Fund Appropriation | | \$ |
| GRAND TOTAL | SPECIAL ASSESSMENT FUN | IDS APPROPRIA | ATION | : <u>5000</u> |
| TOTAL ALL APP | ROPRIATIONS | | | -789 777 |

ADDITIONAL SUPPORT INFORMATION

For Fiscal Year 1993, jurisdictions shall complete the State application form for Issue 2, Small Government, or Local Transportation Improvement Program (LTIP) funding. In addition, the District 2 Integrating Committee requests the following information to determine which projects are funded. Information provided on both forms should be accurate, based on reliable engineering principles. Do NOT request a specific type of funding desired, as this is decided by the District Integrating Committee.

1. Of the total infrastructure within the jurisdiction which is similar to the infrastructure of this project, what percentage can be classified as being in poor condition, adequacy and/or serviceability? Accurate support information, such as pavement management inventories or bridge condition summaries, must be provided to substantiate the stated percentage.

Typical examples are:

Road percentage= <u>Miles of road that are in poor condition</u>
Total miles of road within jurisdiction

Storm percentage= <u>Miles of storm sewers that are in poor condition</u>
Total miles of storm sewers within jurisdiction

Bridge percentage= Number of bridges that are in poor condition

Number of bridges within jurisdiction

40% roads in poor condition - 4.89 miles
25% storm sewers in poor condition - 7.00 miles

 What is the condition of the existing infrastructure to be replaced, repaired, or expanded? For bridges, submit a copy of the latest general appraisal and condition rating.

| Closed | Poor | XX |
|--------|----------|----|
| Fair | Good | |

Give a brief statement of the nature of the deficiency of the presentacility such as: inadequate load capacity (bridge); surface type and width; number of lanes; structural condition; substandard designed elements such as berm width, grades, curves, sight distances, drainage structures, or inadequate service capacity. If known, give the approximate age of the infrastructure to be replaced, repaired, or expanded.

The pavement is currently sliding as evidenced in the ATEC report.

This pavement is in dire need of repair.

3. If State Issue 2 funds are awarded, how soon (in weeks or months) after completion of the agreement with OPWC would the opening of bids occur? The Integrating Committee will be reviewing schedules submitted for previous projects to help judge the accuracy of a particular jurisdiction's anticipated schedule.

Please indicate the current status of the project development by circling the appropriate answers below. PROVIDE ACCURATE ESTIMATE.

N/A

- a) Has the Consultant been selected?..... Yes No
- b) Preliminary development or engineering completed? Yes (No. N/A
- c) Detailed construction plans completed?..... Yes (No) N/A
- d) All right-of-way and easements acquired?..... Yes No N/A
- e) Utility coordination completed?..... Yes (No) N/A

Give estimate of time, in weeks or months, to complete any item above not yet completed.

Final design completed by March 31, 1992 and utilities completed

by April 6, 1992
4. How will the proposed infrastructure activity impact the general health, welfare, and safety of the service area? (Typical examples include the effects of the completed project on accident rates, emergency response time, fire protection, health hazards, user benefits, and commerce.)

This project is of important impact due to the fact that if Shady
Lane slips, it will have to be closed and it carries a significant
amount of traffic from Miami and Green Township, particularly in
the new subdivision in Miami Township

5. For any project involving GRANTS, the local jurisdiction must provide a MINIMUM OF 10% of the anticipated construction cost. Additionally, the local jurisdiction must pay 100% of the costs of preliminary engineering, inspection, and right-of-way. If a project is to be funded under Issue 2 or Small Government, the costs of any betterment/expansion are 100% local. Local matching funds must either be currently on deposit with the jurisdiction, or certified as having been approved or encumbered by an outside agency (MRF, CDBG, etc.). Proposed funding must be shown on the Project Application under Section 3.2, "Project Financial Resources". For a project involving LOANS or CREDIT ENHANCEMENTS, 100% of construction costs are eligible for funding, with no local match required.

What matching funds are to be used for this project? (i.e. Federal, State, MRF, Local, etc.)

MRF

To what extent are matching funds to be utilized, expressed as a percentage of anticipated CONSTRUCTION costs?

10%

| 6. | Has any formal action by a federal, state, or local government agency resulted in a complete ban or partial ban of the use or expansion of use for the involved infrastructure? (Typical examples include weight limits, truck restrictions, and moratoriums or limitations on issuance of new building permits.) THE BAN MUST HAVE AN ENGINEERING JUSTIFICATION TO BE CONSIDERED VALID. Attach a copy of the document (ordinance, resolution, etc.) which imposes the ban. |
|----|--|
| | COMPLETE BAN PARTIAL BAN NO BANXX |
| | Will the ban be removed after the project is completed? YESNO |
| 7. | What is the total number of existing users that will benefit as a result of the proposed project? Use specific criteria such as households, traffic counts, ridership figures for public transit, daily users, etc., and equate to an equal measurement of users: |
| | 5000 ADT x 1.2 = 6000 ADT |
| | For roads and bridges, multiply current <u>documented</u> Average Daily Traffic by 1.2 occupants per car (I.T.E. estimated conversion factor) to determine users per day. Ridership figures for public transit <u>must be documented</u> . Where the facility currently has any restrictions or is partially closed, use documented traffic counts prior to restriction. For storm sewers, sanitary sewers, water lines, and other related facilities, multiply the number of households in the service area by four (4) to determine the approximate number of users per day. |
| 8. | The Ohio Public Works Commission requires that all jurisdictions applying for project funding develop a five year overall Capital Improvement Plan that shall be updated annually. The Plan is to include an inventory and condition survey of existing capital improvements, and a list detailing a schedule for capital improvements and/or maintenance. Both Five-Year Overall and Five-Year Issue 2 Capital Improvement Plans are required. |
| | Copies of these Plans are to be submitted to the District Integrating Committee at the same time the Project Application is submitted. |
| 9. | Is the infrastructure to be improved part of a facility that has regional significance? (Consider the number of jurisdictions served, size of service area, trip lengths, functional classification, and length of route.) Provide supporting information. |
| | Village of North Bend, Miami Township, Mack and Bridgetown |
| | |

OHIO INFRASTRUCTURE BOND PROGRAM (ISSUE 2) - ROUND 5

LOCAL TRANSPORTATION IMPROVEMENT PROGRAM (LTIP) - ROUND 4

FY 1993 PROJECT SELECTION CRITERIA - 7/1/92 TO 6/30/93

ADOPTED BY DISTRICT 2 INTEGRATING COMMITTEE, 2/21/92

| JURISDIC | TION/ | AGENCY: NORTH BEND |
|-------------|-------|--|
| PROJECT | IDENT | IFICATION: 5+ADY LANE |
| | | SHADY LANE |
| | | |
| PROPOSED | FUND: | ING: |
| ELIGIBLE | CATE | GORY: |
| POINTS | | TOTAL POINTS FOR THIS PROJECT |
| 10 | 1) | Type of project |
| | | 10 Points - Bridge, road, stormwater 5 Points - All other projects |
| 10 | 2) | If Issue 2/LTIP funds are granted, when would the construction contract be awarded? (Even though the jurisdictions will be asked this question, the Support Staff will assign points based on engineering experience.) |
| | | 10 Points - Will definitely be awarded by end of 1992 5 Points - Some doubt as to whether it can be awarded by end of 1992 0 Points - No way it can be awarded in 1992 |
| 15 | 3) | What is the condition of the infrastructure to be replaced or repaired? For bridges, base condition on latest general appraisal and condition rating. |
| | | 15 Points - Poor condition 12 Points - 9 Points - Fair to Poor condition 6 Points - 3 Points - Fair condition |

NOTE: If infrastructure is in "good" or better condition, it will NOT be considered for Issue 2/LTIP funding, unless it is a betterment project that will improve serviceability.

- 10 Points Significantly effect on serviceability (e.g., widen to add lanes along entire project)
 - 8 Points Moderate to significant effect on serviceability
 - 6 Points Moderately effect on serviceability (e.g., widen existing lanes)
 - 4 Points Little to no effect on serviceability
- 5) Of the total infrastructure within the jurisdiction which is similar to the infrastructure of this project, what portion can be classified as being in poor or worse condition, and/or inadequate in service?
 - 3 Points 50% and over

2

6

- 2 Points 30% to 49.9%
- 1 Point 10% to 29.9%
- O Points Less than 10%
- 6) How important is the project to the HEALTH, SAFETY, and WELFARE of the public and the citizens of the District and/or the service area?
 - 10 Points Highly significant importance, with substantial impact on all 3 factors
 - 8 Points Considerably significant importance, with substantial impact on 2 factors OR noticeable impact on all 3 factors
 - 6 Points Moderate importance, with substantial impact on 1 factor or noticeable impact on 2 factors
 - 4 Points Minimal importance, with noticeable impact on 1 factor
 - 2 Points No measurable impact
- 7) What is the overall economic health of the jurisdiction?
 - 10 Points Poor
 - B Points -
 - 6 Points Fair
 - · 4 Points -
 - 2 Points Excellent

8) What matching funds are being committed to the project, expressed as a percentage of the TOTAL CONSTRUCTION COST? Matching funds may be local, federal, ODOT, MRF, etc. or a combination of funds. Loan and credit enhancement projects automatically receive 5 points. MINIMUM 10% MATCHING FUNDS REQUIRED FOR GRANT-FUNDED PROJECTS

5 Points - More than 50% 4 Points - 40% to 49.9% 3 Points - 30% to 39.9% 2 Points - 20% to 29.9% 1 Point - 10% to 19.9%

9) Has any formal action or orders by a federal, state, or local governmental agency resulted in a partial or complete ban of the usage or expansion of the usage for the involved infrastructure? Examples include weight limits on structures, EPA orders to replace or repair sewerage, and moratoriums on building permits in a particular area due to local flooding downstream. POINTS CAN BE AWARDED ONLY IF CONSTRUCTION OF THE PROJECT BEING RATED WILL CAUSE THE BAN

10 Points - Complete ban 5 Points - Partial ban

O Points - No ban

TO BE REMOVED.

What is the total number of existing daily users that will benefit as a result of the proposed project? Appropriate criteria include traffic counts & households served, when converted to a measurement of persons. Public transit users are permitted to be counted for roads and bridges, but only when certifiable ridership figures are provided.

10 Points - 10,000 and Over 8 Points - 7,500 to 9,999 6 Points - 5,000 to 7,499 4 Points - 2,500 to 4,999 2 Points - 2,499 and Under

Does the infrastructure have REGIONAL impact? Consider originations & destinations of traffic, functional classification, size of service area, number of jurisdictions served, etc. (Functional classifications to be revised in the future to conform to new Surface Transportation Act.)

5 Points - Major impact (e.g., major multi-jurisdictional route, primary feed route to an Interstate, Federal-Aid Primary routes)

4 Points -

3 Points - Moderate impact (e.g., principal thoroughfares, Federal-Aid Urban routes)

2 Points -

TOTAL AVAILABLE POINTS: 98